



LABORATORY OF APPLIED THERMODYNAMICS



ARISTOTLE UNIVERSITY THESSALONIKI
SCHOOL OF ENGINEERING
DEPT. OF MECHANICAL ENGINEERING

Issues in 2004

- MeditAIRaneo Project (JP Chang)
- HM from Road Transport (M. Winther)
- IPCC Related Issues
- NFR Related Issues
- PM Related Issues
- Input to Review Procedures
- Guidebook Update – COPERT IV

Transport Expert Panel 2005

1. New Methodological Elements for Guidebook/Copert 4
2. "Beta" version of the software
3. Off-road directives and proposals for work
4. Traffic counts request to increase spatial/temporal resolution
5. Ideas on road transport reviewing processes

New Methodological Elements

- ◆ Hot emission factors of regulated pollutants from conventional PCs and PTWs
- ◆ Hybrid vehicle fuel consumption and emission factors
- ◆ N₂O/NH₃ Emission Factors for PCs and LDVs
- ◆ Particulate matter and airborne particle emission factors
- ◆ Non-exhaust particle emissions (tyre, break and road wear)
- ◆ New corrections for emission degradation due to mileage
- ◆ Heavy duty vehicle methodology (emission factors, load factor corrections and road gradient reductions)
- ◆ Developments on the cold-start emission front
- ◆ Developments on evaporation losses incl. PTWs
- ◆ Deadline: Depending on external input. Aim is Sept. 2006

“Beta” version of the software

- .NET instead of Access
- Possibility for time-series in one file
- Enhanced import/export capabilities (mainly Excel)
- Configuration of fleet (local/regional vehicle technologies)
- Wizards to prepare inventory
- Back-compatibility to previous Copert versions and ImportER

Review procedures

- Not initiated in 2005
- Chair to send to the group a list of parameters that could help for the review (time-series comparison not practical)
- Agreement or proposal from the group participants
- Send request to expert panels to provide parameters selected to APAT (R. de Lauretis)
- Review/comparison by chair

Off-Road Directives and proposals for work

- The expert panel identified that additional information on emission factors for off-road machinery could be available from the EGTEI database or could be derived from the new European legislation that came into force in 2002-2004.
- The expert panel proposed to examine this information, compare it with information reported in the Guidebook and identify possible updates.
- The participants to the panel were invited to contribute to this work and inform the chair by e-mail of their possible contribution.
- Offer from IFEU if resources will be found (3 manmonths)

IPCC Related Work
